

Figure 1

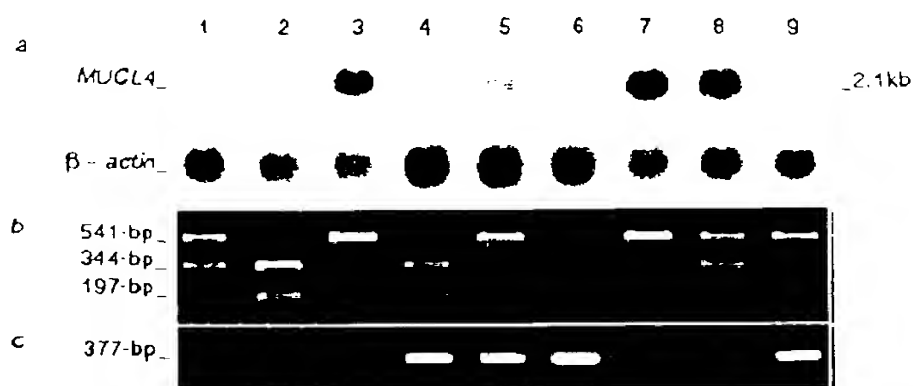


Figure 2A, B, C

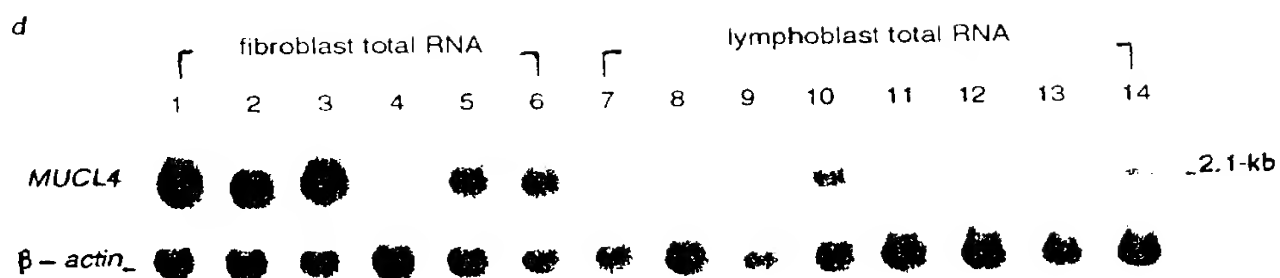


Figure 2D

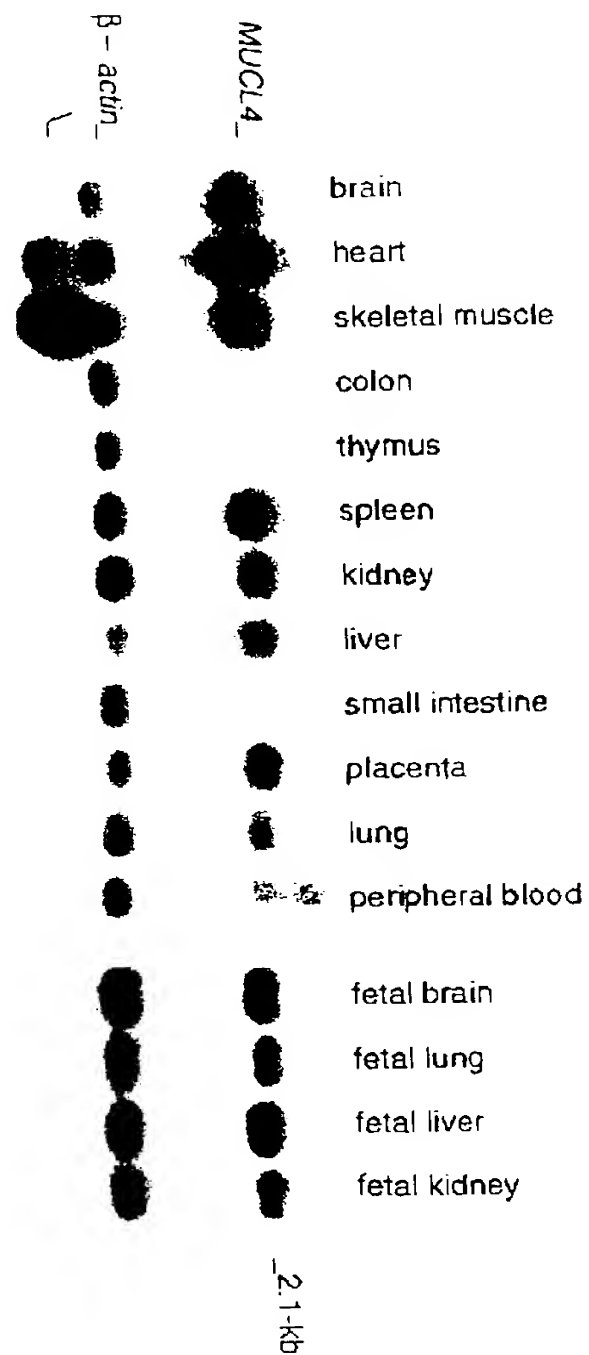


Figure 3

Mucolipin 1 **MTAAGRCSEMERLLTENPGCTQACPSR . APPTPEEDERRRLK**
 BAA91951* 1 **MADEYVYGCSSHEENRCNENQTSPS EELLBQMRRLK**
 AAF49118 1MOSYCGAQTAPAVKRRITDSEAAQQQQQSPSEDEYVNRILRQVQLQSTPVAVVPRPISAGSGTAPPSVDGREEQPEFPSSAASYQEEBMRRLQ

Mucolipin 47 **YFVSEBODKPAKGRKPCQXMQYKLVVYQILFEGISNOAVTERRENTIARPHLPGVSDG ADDTENAVYREOIQAFHAPDQTA**
 BAA91951 4 **FEFVNDCKMWARGRKPKDAIOLTKAKVYIOLVLEISNOVVAPEKENTIAKHHPKGMOR MODYANVYGSNDQI EAVNOZLG**
 AAF49118 101 **FEFVNDIEKQCAKRPKPKFWOIVKIFVYQOLCLFASHSRNHINVTGDNRFASHPLEKQDSSREVESYPPVAGPEATPLISEFPDITVQAVVNGYAN**

Mucolipin 139 **TPDVSSEGVAVVRCGCDPWTCSCATCCQRYHREND FANDMEDIDPVAWVQICQIDPBPAPPPPSDDLTISSSSSYKNTLVNBIKQVNTYHPRK**
 BAA91951 136 **YNVSYGNHAYENK TKOSAKITCOHFKKRETFEGNDTDDIDPELEHCEFFVSD FHGTPAENKLVND EIRLIVELQEDK**
 AAF49118 200 **YS RSIGPYDPTPN NTMPPTKCTCLONRECE TEGNESYIFDPHIDEV CERLPANVT TIGVNYLRQDYVYVQASLVSAOLTEKIK**

Mucolipin 239 **YVINOSEIN . NEIPDCYTESYLITPDNKAHGERIPISITQAHIOECK HPSVROHONSERIMEDYVVIITCSLSEITC RSTIRGELTONETVGM**
 BAA91951 224 **YVINOVRH . OEUPDCYD EMLITPDNKAHGERIKSIDN I SIRECKDW . HVSGS YDNHVNEDAEVITQVLSLITCISYERGLQLOEAVNEE**
 AAF49118 287 **YVNFKANGCPLSAPDCERBDUSITVNNEDFDCEYLSIDAELTRKCHGATDFTSDANSDSVLSYINTEVITNCAISPAICPAIMVAMTRCTVNEE**

Mucolipin 335 **WRQRCGVLSMERLEFVNGWYITVMT SDVLTISCEITKCELEAKNTAS . YDVCSTILGISTVAVYGVIRLTIEHNNTILATIEVILASVYRECCV**
 BAA91951 322 **LHKKKQYSYSDOE FVNGWYIMTIL SDITLTIGSTIKKEIQAKSLTS . YDVCSTILGISTVAVYGVIRLTIEHAKNBDILIMQALBNVIRECCG**
 AAF49118 387 **RSQEGKLSFDGRLEFVNWYIMTILNDVLTIGSLAKEQIEGKYLVDQNTCSERLCEINLVMFGVIRLTIEHAKNBDILIMQALBNVIRECCG**

Mucolipin 433 **YVITGYCEFCGWIVLGPYHKRST SVVSECLFSITNGDDMEVTEA YOAQOCSSSLVWLESQYIYNSFISLFTYVWLSLPAITLCAYDVIKHPGAGCA**
 BAA91951 420 **YVITGYCEFCGWIVLGPYHDKRSTANVSECLFSITNGDDMEVTEAKVQO . KSYLVWLESRIYIYNSFISLFTYVWLSLPAITLDTYETIKQYQODG**
 AAF49118 487 **LTLYAGVEFCGWITLGPYHKRSTATTSECLALINGDDMEVTEATLSS . KATVWMECOIYIYNSFISLFTYVWLSLPAITLDAVDVIKAYVQGS**

Mucolipin 533 **ESSEPIQAYIYVQCO . DSPYSGKPRGSG SACSIFCCCGRDPSEHSLVN**
 BAA91951 517 **PEWERTIESECK . DLPNSGKPRLEDD PVSIFCCCK**
 AAF49118 584 **ETDIFKAYGTRTAEDISSGVEMDUDFDQTSLDVKSIFCCCGRCGRHQEPAOPSSGYTSLSSINK**

Figure 4A

PKD2 vs. Mucolipin Hydrophobicity Plot

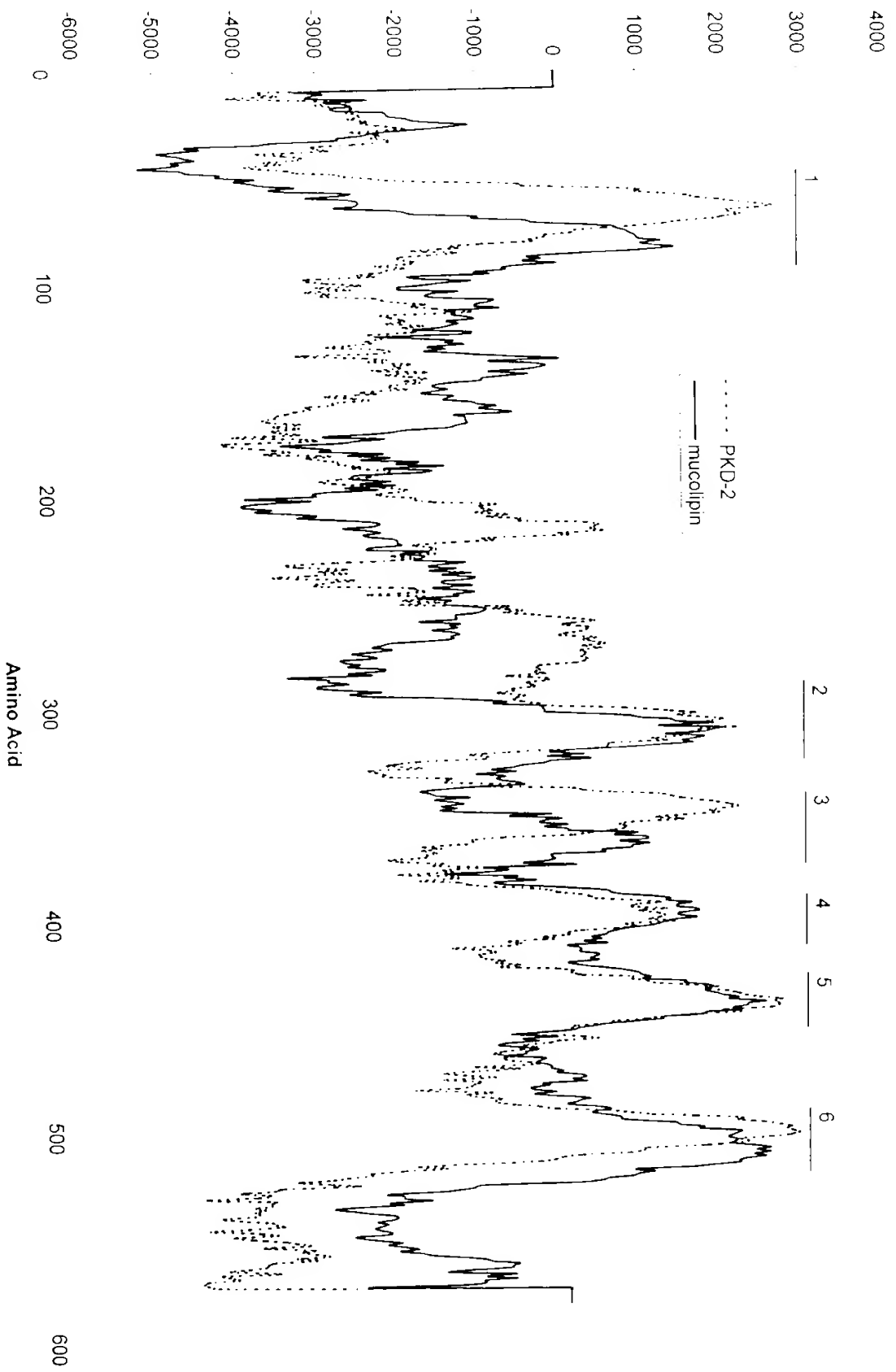


Figure 4B